

10/556850  
JC12 Rec'd PCT/PTC 07 JUL 2005

## Specifications

---

### A Triangular Raised Terrace Assembly

#### Technical Field

The present invention involves a triangular raised terrace assembly.

#### Background Technology

At present, the design of member terrace ranges from quadrangle, polygon to triangle and so on. However, when they are constructed and used, due to the bearing of member edge, bending-upwards and cracking may occur, and slurry may appear on the ground. Moreover, uncontrollable errors in terrace construction and natural sedimentation of terrace will cause terrace surface waterlogging. In addition, the closed terrace construct will block ground fountain, affecting the groundwater environment.

#### Publicity of the Invention

Aiming at the aforementioned problems, the purpose of the present invention is to remove the disadvantageous factors and to put forward with a triangular raised terrace assembly to settle the problems of bending-upwards and cracking, and the appearance of slurry on the ground caused by the bearing of member edge, to eliminate water on the terrace surface and to communicate the ground fountain.

The purpose of the present invention is realized in a way that the triangular raised terrace assembly covered by the present invention consists of triangular plate members and raised base members. The raised base members are arranged to the designed positions on the ground base, and the triangular plate members are laid on the raised base members in order so as to construct a triangular raised combined terrace. Three angles of each triangular plate member in the triangular raised combined terrace are rested on the central position of each raised base member.

As a result of the adoption of the aforementioned plan, the edge bearings of triangular plate members are transmitted through the combination of members to the central bearings of the raised base members, producing more bearing power of effective area on the ground base. At the same time, due to the stability of triangle and the positioning function of center hexagons of the raised base members, the triangular raised combined terrace enjoys a stable combined surface. In addition, for the raised combined terrace surface is higher than the waterlogging height of the ground, when water goes onto the triangular raised combined terrace surface, it will rapidly flow through the combined gaps between the triangular plate members to the space in the raised lower part for water storage and drainage, finally filtering into the ground or flow into the drainage pipes.

The following is a further explanation of the present invention through figures and examples.

Brief Description of the Figures

Figure 1 is a vertical view of the combination (part) of the triangular raised terrace assembly covered by the present invention.

Figure 2 is the cutaway view of figure 1 A—A.

Numbers in figures: 1 triangular plate members, 2 raised base members, 3 center column, 4 waterlogging surface, 5 ground.

The Best Way to Realize the Present Invention

In the figure: on the ground 5, the raised base members 2 are arranged in order, the lower part and the upper part of each of the raised base members 2 are a regular hexagon cone and a center hexagon column 3 respectively, a step is provided between the lower part and the upper part, and each of the triangular plate members 1 is rested on the faces of the steps; each of the triangular plate members is an equilateral triangle with three cutting angles, and the side length of each cutting angle is corresponding to the side length of the center column 3. The side lengths of the triangular plate members 1 and the center column 3 correspond with each other to be put onto the raised base members 2 to construct the raised combined terrace. When water goes onto the terrace surface and higher than the waterlogging surface 4, it will filter into the ground or flow into the drainage pipes.